

STN Columbus

FILE 'STNGUIDE' ENTERED AT 07:13:35 ON 15 MAY 2006

FILE 'REGISTRY' ENTERED AT 07:23:52 ON 15 MAY 2006

L10 STRUCTURE UPLOADED
L11 7 S L10 SAM SUB=L7

FILE 'STNGUIDE' ENTERED AT 07:29:17 ON 15 MAY 2006

FILE 'REGISTRY' ENTERED AT 07:33:38 ON 15 MAY 2006

L12 STRUCTURE UPLOADED
L13 1 S L12 SAM SUB=L7
L14 3 S L12 SSS FULL SUB=L7

FILE 'CA' ENTERED AT 07:35:35 ON 15 MAY 2006

=> s 114
L15 2 L14

=> d 115 bib

L15 ANSWER 1 OF 2 CA COPYRIGHT 2006 ACS on STN
Full Text
AN 143:376395 CA
TI Hydrazone-based charge-transport materials for organic electrophotographic photoreceptors
IN Jubran, Nusrallah; Tokarski, Zbigniew; Getautis, Vytautas; Daskeviciene, Maryte; Malinauskas, Tadas; Sidaravicius, Jonas; Jankauskas, Vygintas
PA USA
SO U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005221213	A1	20051006	US 2004-815243	20040331
	CN 1677251	A	20051005	CN 2005-10052117	20050225
	EP 1584985	A2	20051012	EP 2005-251130	20050225
	EP 1584985	A3	20051109		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	JP 2005292836	A2	20051020	JP 2005-104673	20050331
PRAI	US 2004-815243	A	20040331		

=> s 115 bib 2

MISSING OPERATOR L15 BIB

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> d 115 bib 2

L15 ANSWER 2 OF 2 CA COPYRIGHT 2006 ACS on STN
Full Text
AN 143:115341 CA
TI Preparation of organophotoreceptors with charge transport materials having three linked hydrazone groups
IN Tokarski, Zbigniew; Paulauskaite, Ingrida; Sidaravicius, Jonas; Jubran, Nusrallah; Jankauskas, Vygintas; Getautis, Vytautas
PA Samsung Electronics Co., Ltd., S. Korea
SO Eur. Pat. Appl., 25 pp.

BEST AVAILABLE COPY

CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1550653	A1	20050706	EP 2004-257415	20041130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
US 2005147903	A1	20050707	US 2003-749418	20031231
CN 1637626	A	20050713	CN 2004-10098242	20041130
JP 2005196201	A2	20050721	JP 2005-284	20050104
PRAI US 2003-749418	A	20031231		
OS MARPAT 143:115341				

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

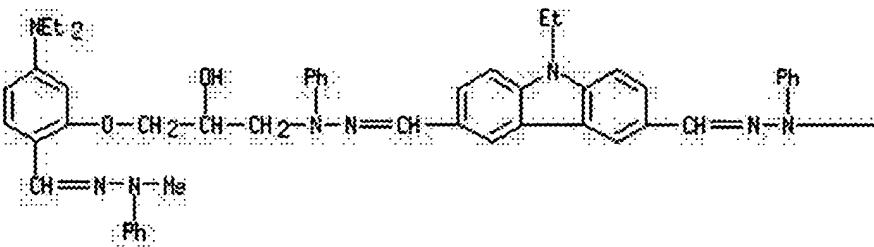
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L15 ANSWER 1 OF 2 CA COPYRIGHT 2006 ACS on STN

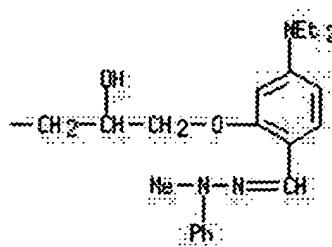
IT 866409-35-0P 866409-36-1P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (hydrazone-based charge-transport materials for org. electrophotog. photoreceptors for high quality images)
 RN 866409-35-0 CA
 CN 9H-Carbazole-3,6-dicarboxaldehyde, 9-ethyl-, bis[[3-[5-(diethylamino)-2-[(methylphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone] (9CI) (CA INDEX NAME)

PAGE 1-A



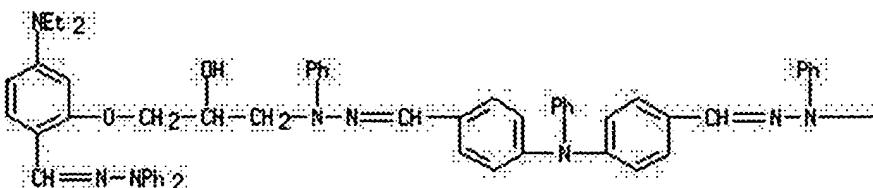
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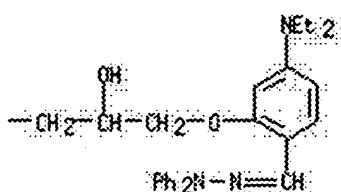
RN 866409-36-1 CA
 CN Benzaldehyde, 4,4'-(phenylimino)bis-, bis[[3-[5-(diethylamino)-2-[(diphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone] (9CI)

(CA INDEX NAME)

PAGE 1-A



PAGE 1-B



=> d hitstr 2

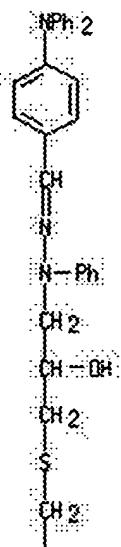
L15 ANSWER 2 OF 2 CA COPYRIGHT 2006 ACS on STN
 IT 857520-87-7P

RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (prepn. of organophotoreceptors with charge transport materials having three linked hydrazone groups)

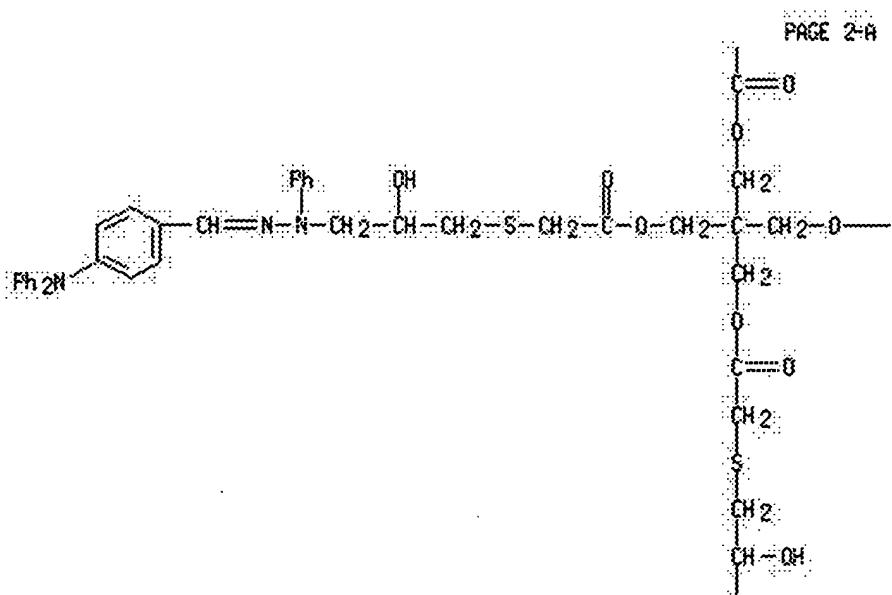
RN 857520-87-7 CA

CN Acetic acid, [[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropyl]thio]-, 2,2-bis[[[[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropyl]thio]acetyl]oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)

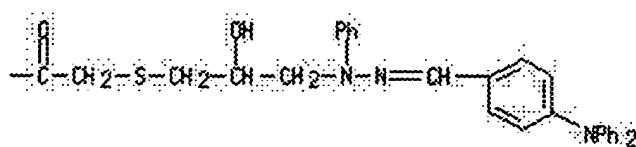
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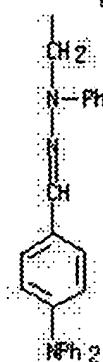
PAGE 2-A



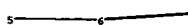
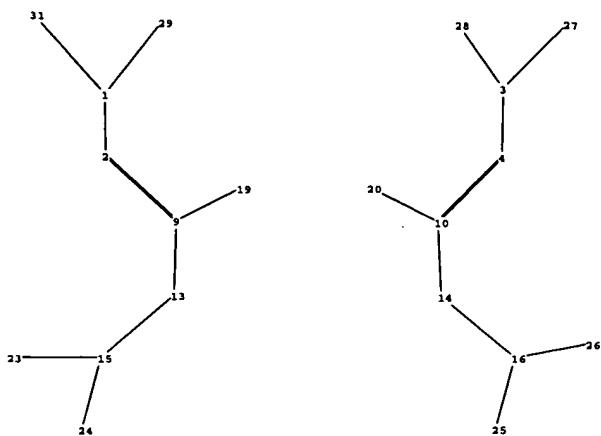
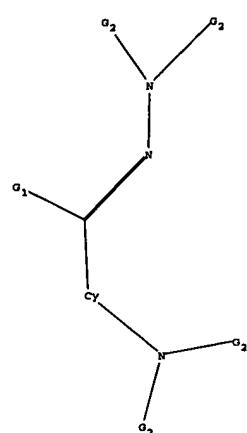
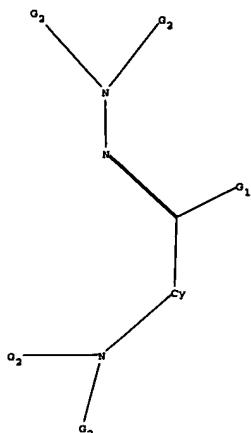
PAGE 2-B



PAGE 3-A



=>



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 19 20 23 24 25 26 27 28
 29 31

chain bonds :

1-2 1-29 1-31 2-9 3-4 3-27 3-28 4-10 5-6 6-11 7-8 8-12 9-13 9-19 10-14 10-20
 12-17 13-15 14-16 15-23 15-24 16-25 16-26

exact/norm bonds :

1-2 1-29 1-31 2-9 3-4 3-27 3-28 4-10 5-6 6-11 7-8 8-12 9-13 9-19 10-14 10-20
 12-17 13-15 14-16 15-23 15-24 16-25 16-26

G1:H,Cy,Ak

G2:Cy,Ak

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS 13:Atom 14:Atom 15:CLASS 16:CLASS 17:Atom 19:CLASS 20:CLASS
 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 31:CLASS

STN Columbus

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 4 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 5 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 9 MAR 08 X.25 communication option no longer available after June 2006
NEWS 10 MAR 22 EMBASE is now updated on a daily basis
NEWS 11 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 12 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 13 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 14 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 15 APR 12 Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 16 APR 12 Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS 17 MAY 10 CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 18 MAY 11 KOREAPAT updates resume

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT <http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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Dear valued STN customer,

In an effort to enhance your experience with STN, we would like to better understand what you find useful. Please take approximately 5 minutes to complete a web survey.

If you provide us with your name, login ID, and e-mail address, you will be entered in a drawing to win a free iPod(R). Your responses will be kept confidential and will help us make future improvements to STN.

STN Columbus

Take survey: <http://www.zoomerang.com/survey.zgi?P=WEB2259HNKWTUW>

Thank you in advance for your participation.

FILE 'HOME' ENTERED AT 06:52:48 ON 15 MAY 2006

=> fil req

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY

TOTAL

FULL ESTIMATED COST

ENRICO

OBITION

FILE 'REGISTRY' ENTERED AT 06:53:03 ON 15 MAY 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES : 14 MAY 2006 HIGHEST RN 884198-07-6
DICTIONARY FILE UPDATES: 14 MAY 2006 HIGHEST RN 884198-07-6

New CAS Information Use Policies. enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of material samples and the intellectual property rights.

On property searching in REGISTRY, refer to

=>

=> s sam 11
SAMPLE SEARCH INITIATED 06:54:08 FILE 'REGISTRY'
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100.0% PROCESSED 966 ITERATIONS
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1.1 ANSWERS

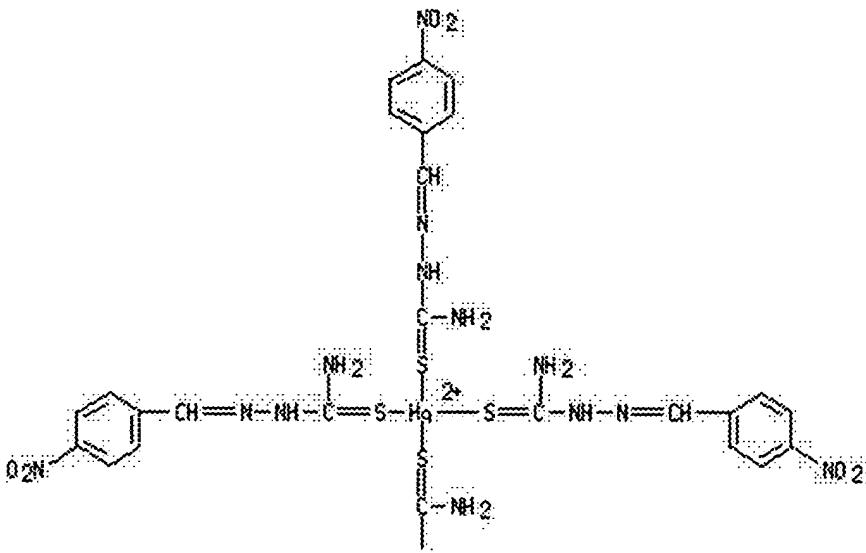
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 17456 TO 21184
PROJECTED ANSWERS: 22 TO 418

L2 11 SEA SSS SAM L1

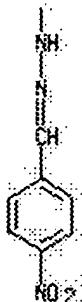
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L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Mercury(2+), tetrakis[2-[(4-nitrophenyl)methylene]hydrazinecarbothioamide-
S]-, dichloride, (T-4)- (9CI)
MF C32 H32 Hg N16 O8 S4 . 2 Cl
CI CCS

PAGE 1-A



PAGE 2-A

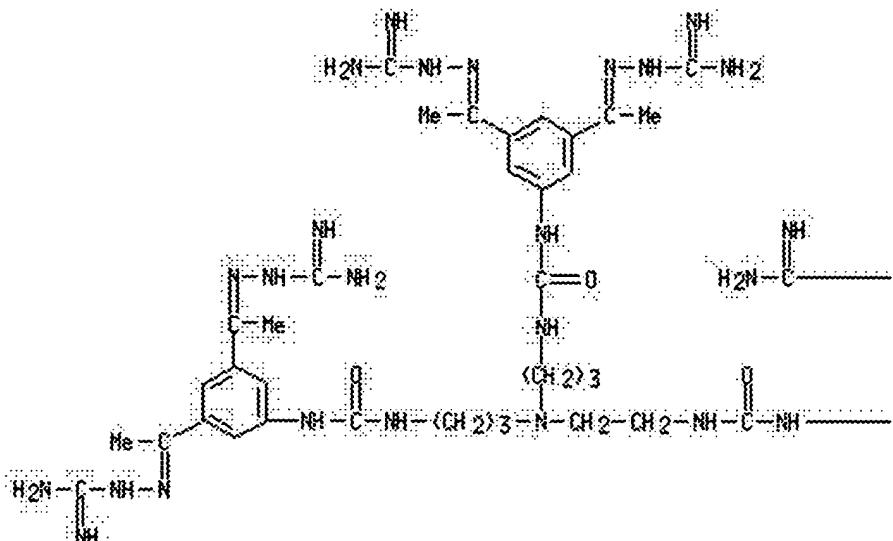


12 CI

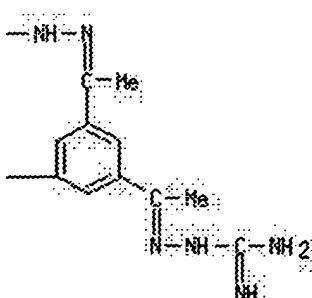
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Hydrazinecarboximidamide, 2,2',2'',2'''-{{[2-[[[[3,5-bis[1-
 [(aminoiminomethyl)hydrazono]ethyl]phenyl]amino]carbonyl]amino]ethyl]imino
]bis(3,1-propanediyliminocarbonylimino-5,1,3-benzenetriylidethylidyne)]tet
 rakis- (9CI)
 MF C47 H73 N31 O3
 CI COM

PAGE 1-A



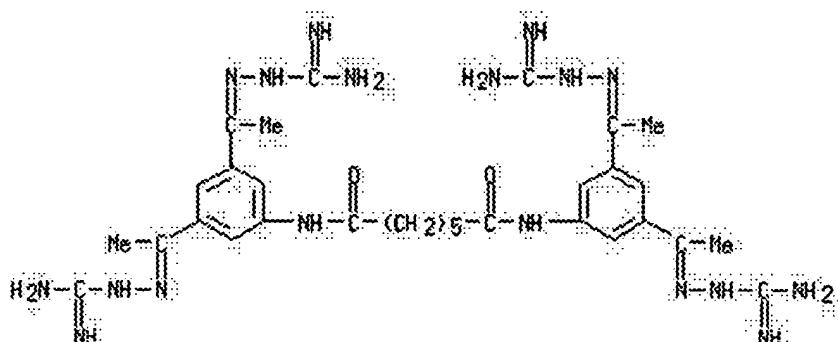
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Heptanediamide, N,N'-bis[3,5-bis[1-[(aminoiminomethyl)hydrazono]ethyl]phenyl]-, tetrahydrochloride (9CI)
 MF C31 H46 N18 O2 . 4 Cl H

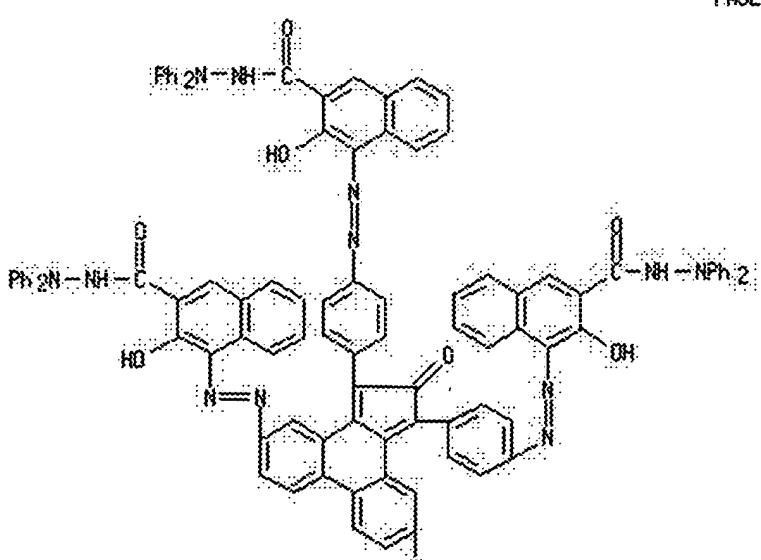


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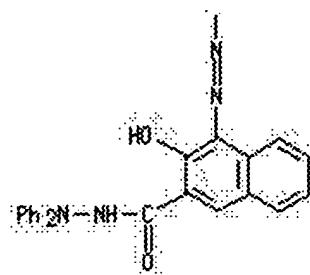
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4'--[[5,10-bis[[3-[(2,2-diphenylhydrazino)carbonyl]-2-hydroxy-1-naphthalenyl]azo]-2-oxo-2H-cyclopenta[1]phenanthrene-1,3-diyl]bis(4,1-phenyleneazo)]bis[3-hydroxy-, bis(2,2-diphenylhydrazide) (9CI)
 MF C121 H82 N16 O9

PAGE 1-A



PAGE 2-A

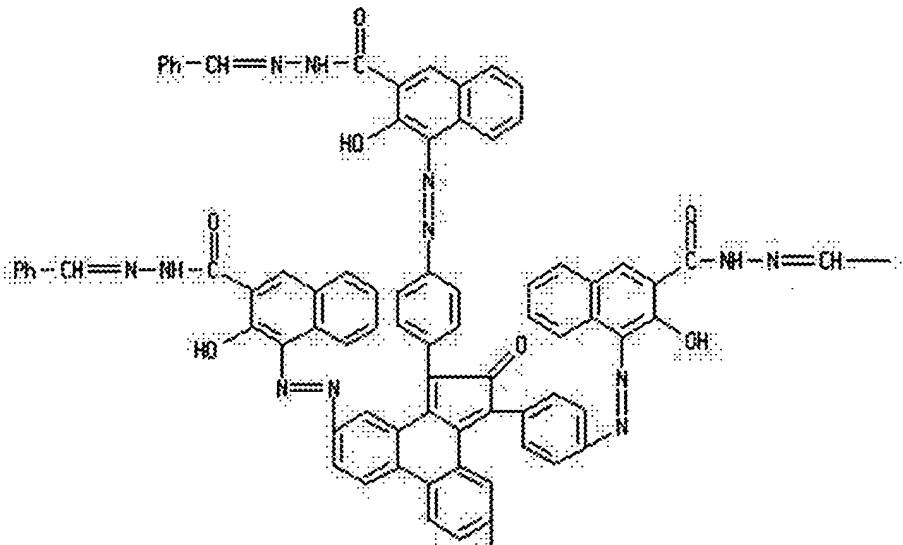


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4'-{[5,10-bis[[2-hydroxy-3-[(phenylmethylene)hydrazino]carbonyl]-1-naphthalenyl]azo]-2-oxo-2H-cyclopenta[1]phenanthrene-1,3-diyl]bis(4,1-phenyleneazo)}bis[3-hydroxy-[(phenylmethylene)hydrazide] (9CI)
MF C101 H66 N16 O9

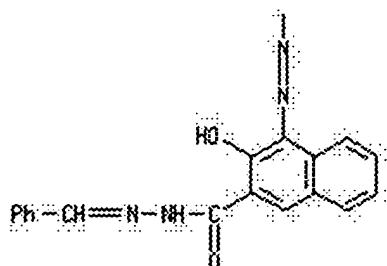
PAGE 1-A



PAGE 1-3

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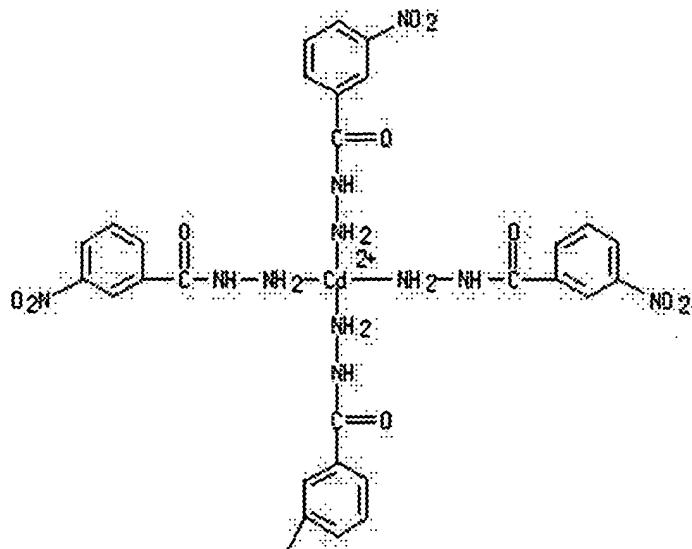
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Cadmium(2+), tetrakis(3-nitrobenzoic acid hydrazide)-, (T-4)-, dinitrate
(9CI)
MF C28 H28 Cd N12 O12 . 2 N O3

CM 1

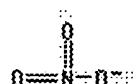
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PAGE 2-A

02N

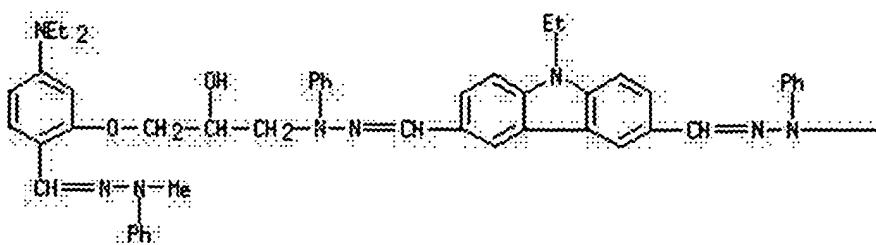
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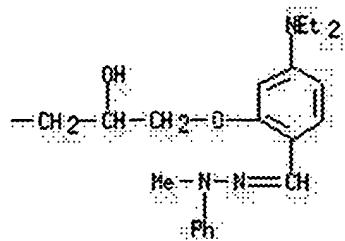


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 9H-Carbazole-3,6-dicarboxaldehyde, 9-ethyl-, bis[[3-[5-(diethylamino)-2-[(methylphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone] (9CI)
 MF C70 H79 N11 O4

PAGE 3-A

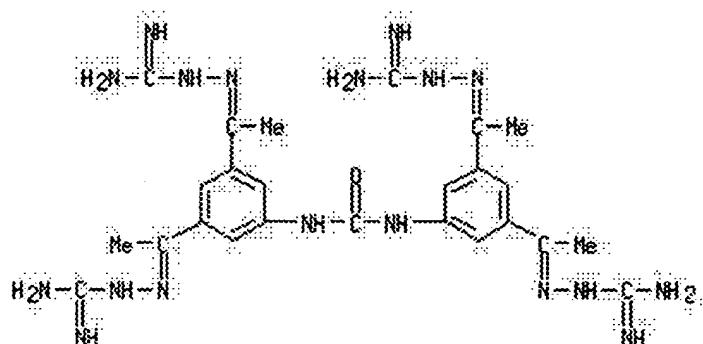




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hydrazinecarboximidamide, 2,2',2'',2'''-[carbonylbis(imino-5,1,3-benzenetriylidethylylidyne)]tetrakis-, heptahydrochloride (9CI)
MF C25 H36 N18 O . 7 Cl H

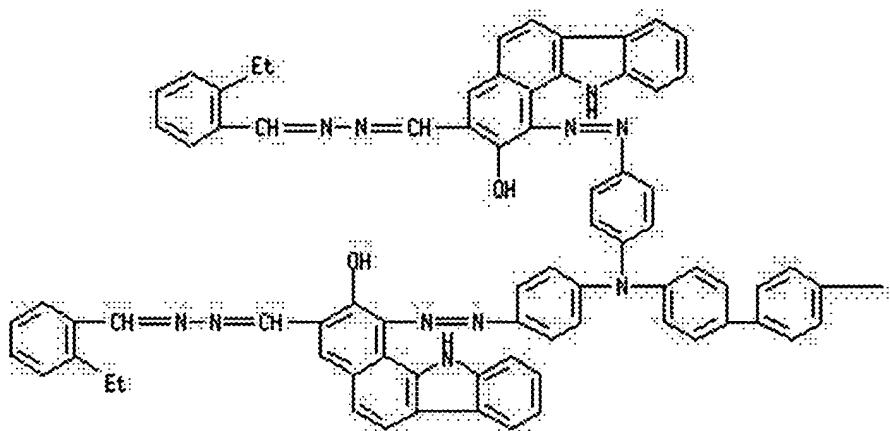


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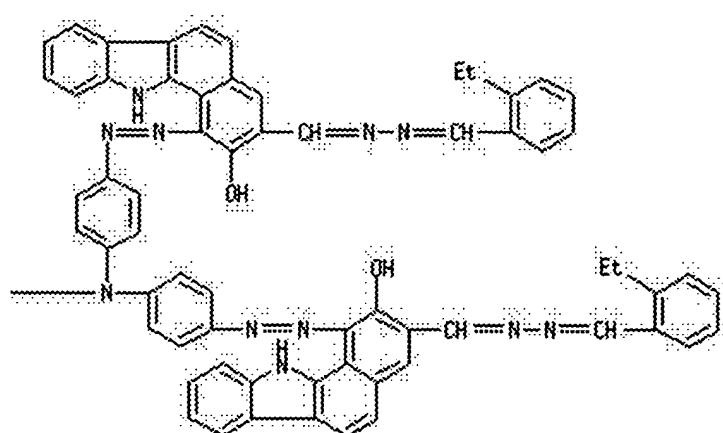
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 11H-Benzo[a]carbazole-3-carboxaldehyde, 1,1',1'',1'''-[[1,1'-biphenyl]-
 4,4'-diyl]bis[nitrilobis(4,1-phenyleneazo)]tetrakis[2-hydroxy-,
 tetrakis[[(2-ethylphenyl)methylene]hydrazone] (9CI)
 MF C140 H104 N22 O4

PAGE 1-A



PAGE 1-2

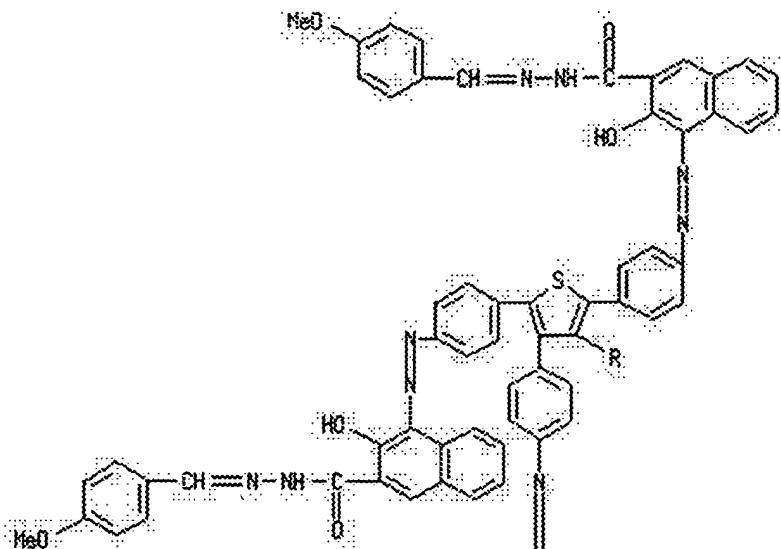


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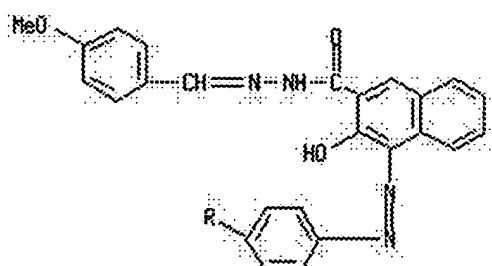
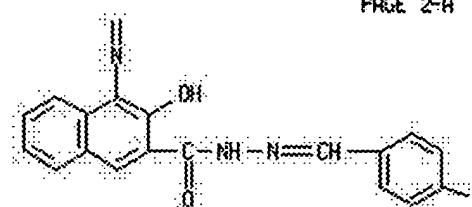
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[2,3,4,5-
thiophenetetracyl[tetrakis(4,1-phenyleneazo)]tetrakis[3-hydroxy-,
tetrakis[(4-methoxyphenyl)methylene]hydrazide] (9CI)
MF C104 H76 N16 O12 S

PAGE 1-A



PAGE 2-A



PAGE 2-B

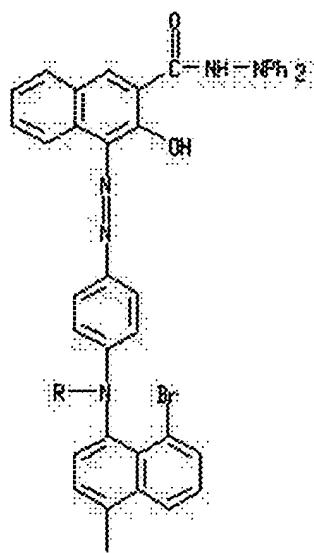
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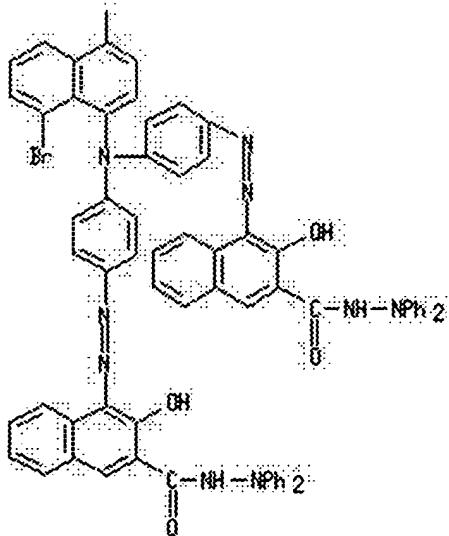
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

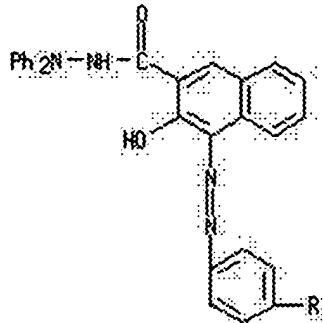
L2 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[(5,5'-dibromo[1,1'-binaphthalene]-4,4'-diyl)bis[nitrilobis(4,1-phenyleneazo)]tetrakis[2-hydroxy-, tetrakis(2,2-diphenylhydrazide) (9CI)
MF C136 H94 Br2 N18 O8

Page 14



Page 20





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.08	3.29

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 06:57:17 ON 15 MAY 2006

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'REGISTRY' AT 06:58:14 ON 15 MAY 2006
 FILE 'REGISTRY' ENTERED AT 06:58:14 ON 15 MAY 2006
 COPYRIGHT (C) 2006 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.08	3.29

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.84	5.05

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 07:00:22 ON 15 MAY 2006

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'REGISTRY' AT 07:04:20 ON 15 MAY 2006
 FILE 'REGISTRY' ENTERED AT 07:04:20 ON 15 MAY 2006
 COPYRIGHT (C) 2006 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.84	5.05

=>

Uploading structure
 screen 1918

L3 SCREEN CREATED

=>

L4 STRUCTURE UPLOADED

=>
L5 QUE L4 NOT L3

=> s sam 15
SAMPLE SEARCH INITIATED 07:05:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS
SEARCH TIME: 00.00.01

9 ANSWERS

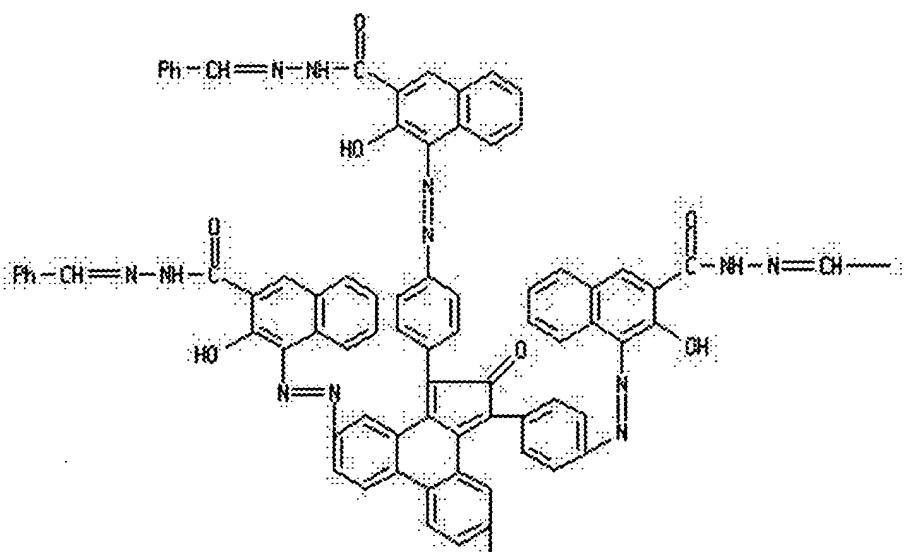
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BATCH **COMPLETE**
PROJECTED ITERATIONS: 11885 TO 14995
PROJECTED ANSWERS: 9 TO 360

L6 9 SEA SSS SAM L4 NOT L3

=> d scan

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4'--[[5,10-bis[[2-hydroxy-3-
[(phenylmethylene)hydrazino]carbonyl]-1-naphthalenyl]azo]-2-oxo-2H-
cyclopenta[1]phenanthrene-1,3-diyl]bis(4,1-phenyleneazo)]bis[3-hydroxy-,
bis[(phenylmethylene)hydrazide] (9CI)
MF C101 H66 N16 O9

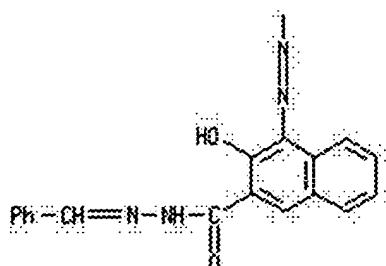
PAGE 1-A



PAGE 1-B

→Ph:

PAGE 2-A

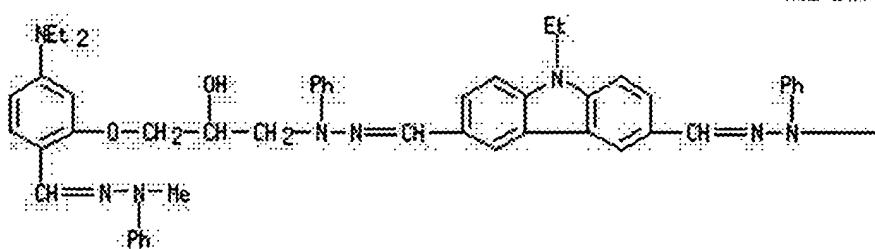


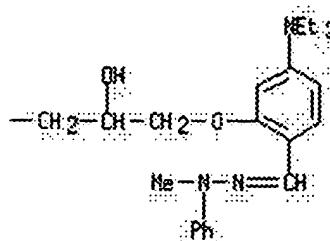
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 9H-Carbazole-3,6-dicarboxaldehyde, 9-ethyl-, bis[[3-[5-(diethylamino)-2-
[(methylphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone]
(9CI)
MF C70 H79 N11 O4

PAGE 1-A

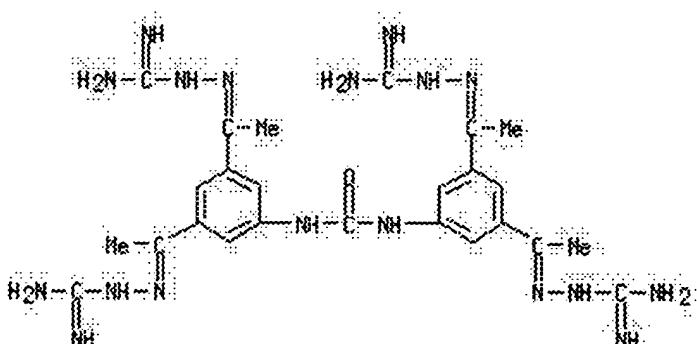




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Hydrazinecarboximidamide, 2,2',2'',2'''-[carbonylbis(imino-5,1,3-benzenetriylidyne)]tetrakis-, heptahydrochloride (9CI)
 MF C25 H36 N18 O . 7 Cl H

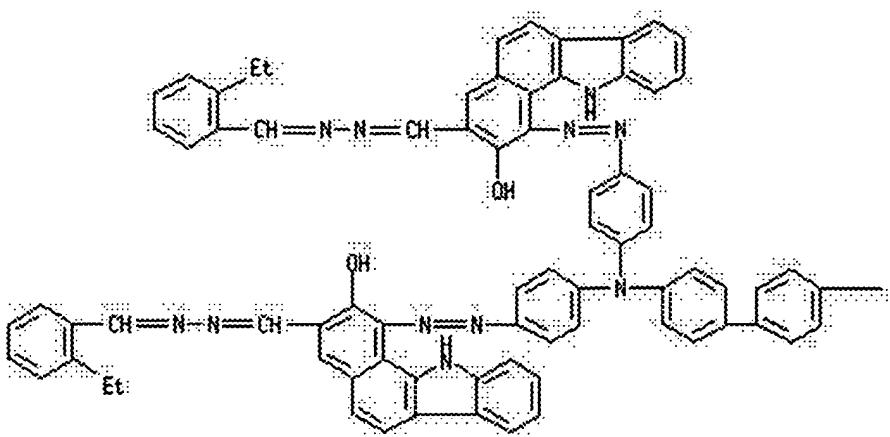


#7 HCl

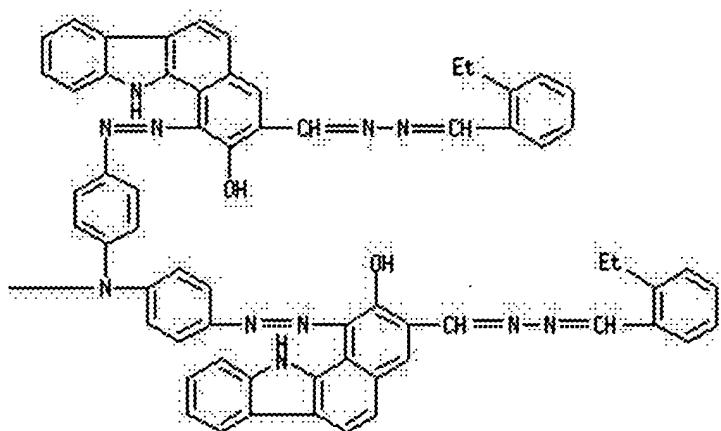
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 11H-Benzo[a]carbazole-3-carboxaldehyde, 1,1',1'',1'''-[[1,1'-biphenyl]-4,4'-diylbis[nitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-, tetrakis[(2-ethylphenyl)methylene]hydrazone] (9CI)
 MF C140 H104 N22 O4

PAGE 1-A



PAGE 1-B

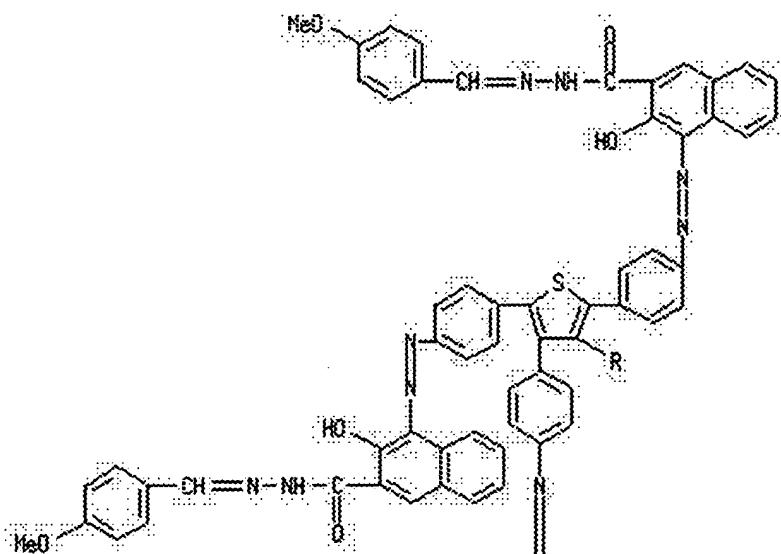


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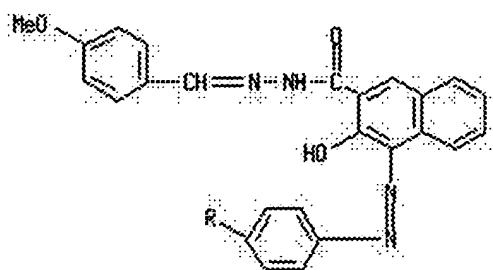
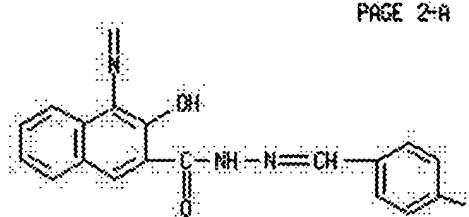
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[2,3,4,5-thiophenetetrayltetrakis(4,1-phenyleneazo)]tetrakis[3-hydroxy-, tetrakis[(4-methoxyphenyl)methylene]hydrazide] (9CI)
 MF C104 H76 N16 O12 S

PAGE 1-A



PAGE 2-A



PAGE 2-B

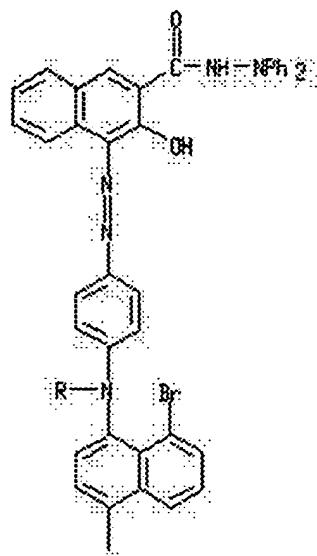
© Ciba

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

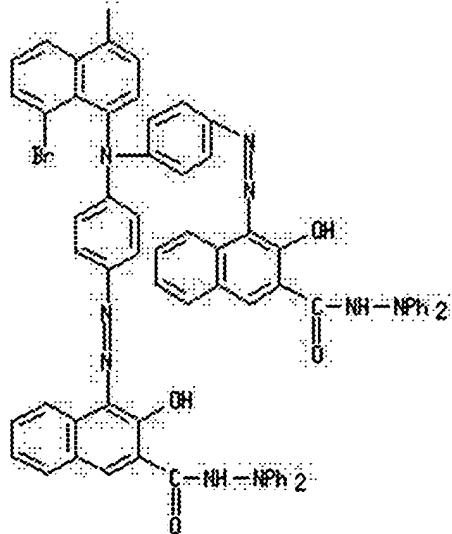
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[(5,5'-dibromo[1,1'-binaphthalene]-4,4'-diyl)bis[nitrilobis(4,1-phenyleneazo)]tetrakis[2-hydroxy-, tetrakis(2,2-diphenylhydrazide) (9CI)
MF C136 H94 Br2 N18 O8

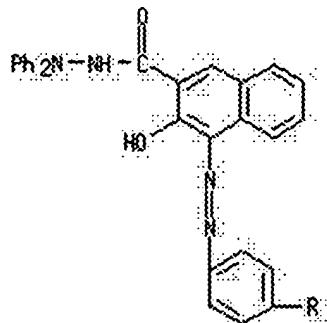
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PAGE 2-A



PAGE 3-A

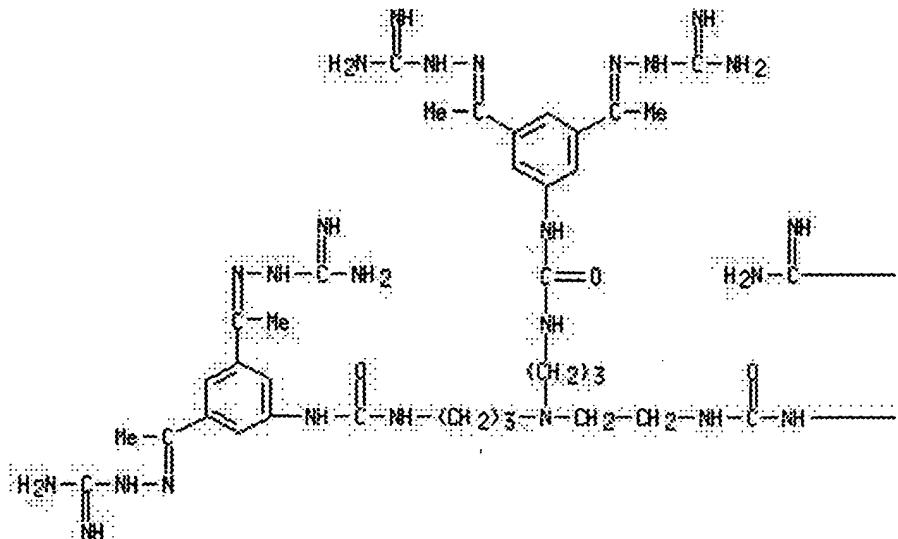


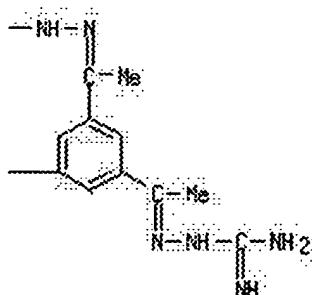
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Hydrazinecarboximidamide, 2,2',2'',2'''-[[[2-[[[[3,5-bis[1-[(aminoiminomethyl)hydrazone]ethyl]phenyl]amino]carbonyl]amino]ethyl]imino]bis(3,1-propanediyliminocarbonylimino-5,1,3-benzenetriylidene)]tetraakis- (9CI)
 MF C47 H73 N31 O3
 CI COM

PAGE 1-A

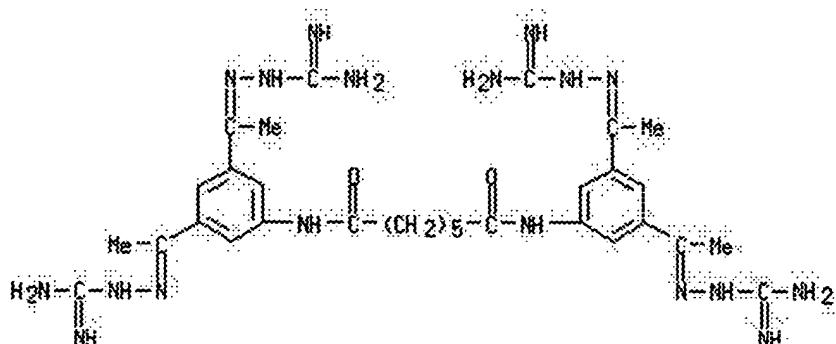




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Heptanediamide, N,N'-bis[3,5-bis[1-[(aminoiminomethyl)hydrazono]ethyl]phenyl]-, tetrahydrochloride (9CI)
 MF C31 H46 N18 O2 . 4 Cl H

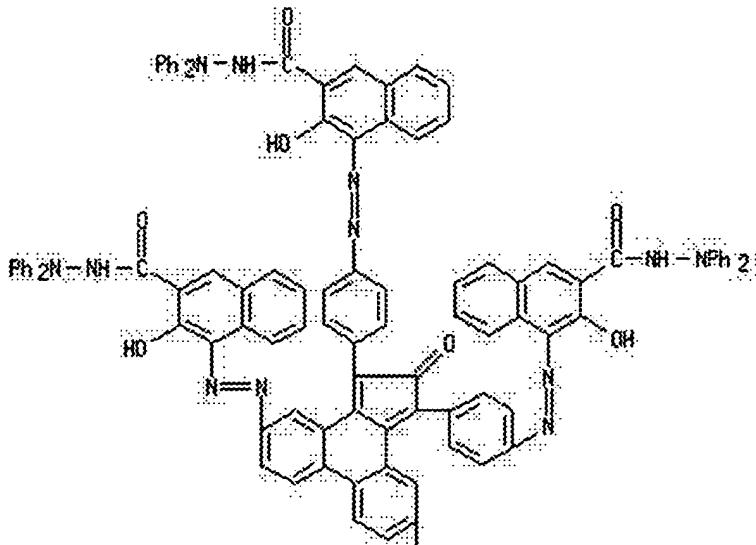


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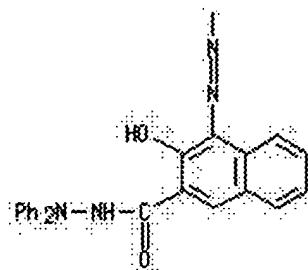
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L6 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4'--[[5,10-bis[[3-[(2,2-diphenylhydrazino)carbonyl]-2-hydroxy-1-naphthalenyl]azo]-2-oxo-2H-cyclopenta[1]phenanthrene-1,3-diyl]bis(4,1-phenyleneazo)]bis[3-hydroxy-, bis(2,2-diphenylhydrazide) (9CI)
 MF C121 H82 N16 O9

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 06:52:48 ON 15 MAY 2006)

FILE 'REGISTRY' ENTERED AT 06:53:03 ON 15 MAY 2006

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L1      STRUCTURE UPLOADED
L2      11 S SAM L1
L3      SCREEN 1918
L4      STRUCTURE UPLOADED
L5      QUE L4 NOT L3
L6      9 S SAM L5

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=> s 15 sss full
FULL SEARCH INITIATED 07:09:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13633 TO ITERATE

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100.0% PROCESSED 13633 ITERATIONS
 SEARCH TIME: 00.00.01

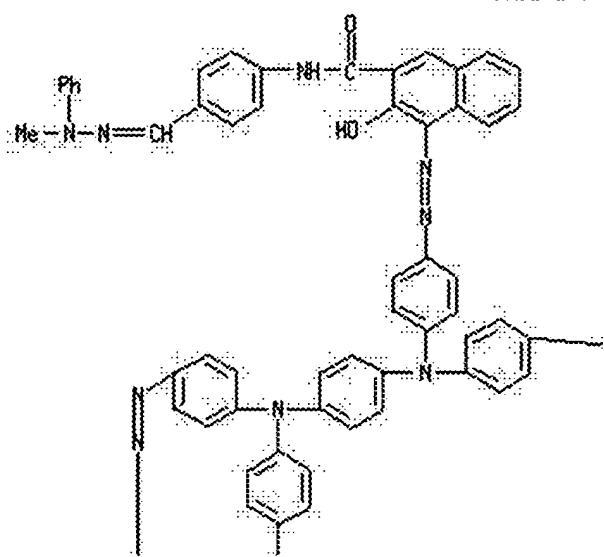
169 ANSWERS

L7 169 SEA SSS FUL L4 NOT L3

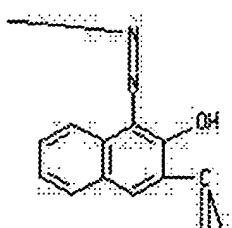
=> d scan

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[1,4-phenylenebis[nitrilobis(4,1-phenyleneazo)]tetrakis[3-hydroxy-N-[4-[(methylphenylhydrazono)methyl]phenyl]- (9CI)
MF C130 H100 N22 O8

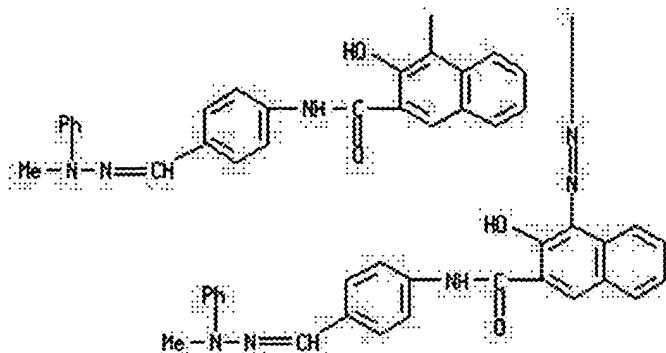
Page 1-9



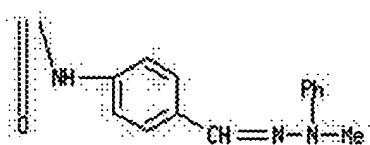
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PAGE 2-A



PAGE 2-B

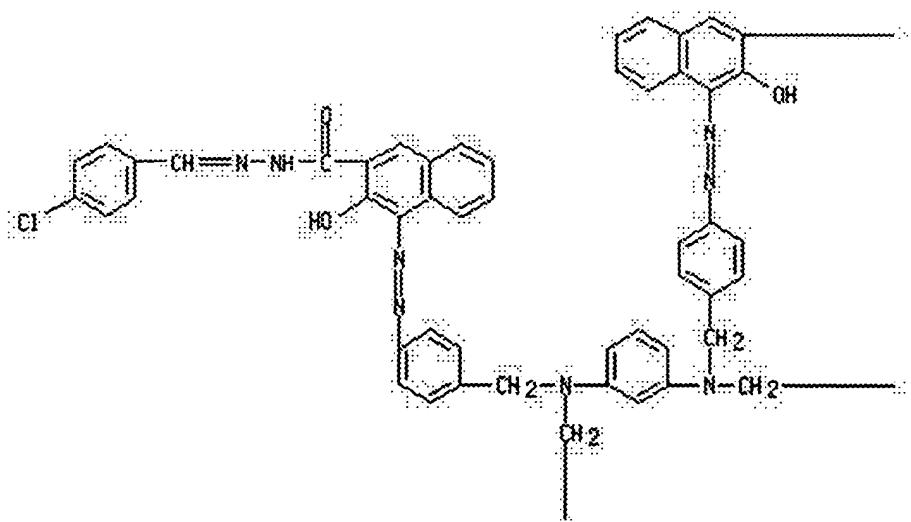


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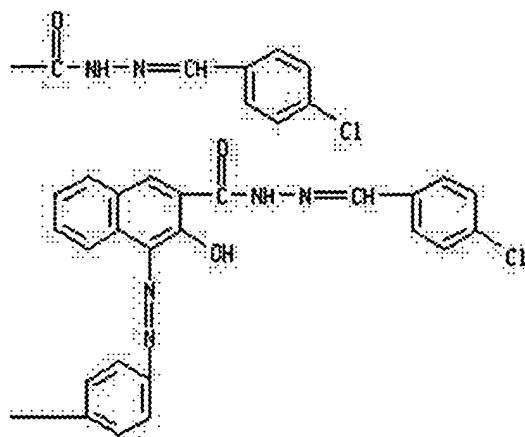
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[1,3-phenylenebis[nitrilobis(methylene-4,1-phenyleneazo)]]]tetrakis[3-hydroxy-, tetrakis[(4-chlorophenyl)methylene]hydrazide] (9CI)
 MF C106 H76 Cl4 N18 O8

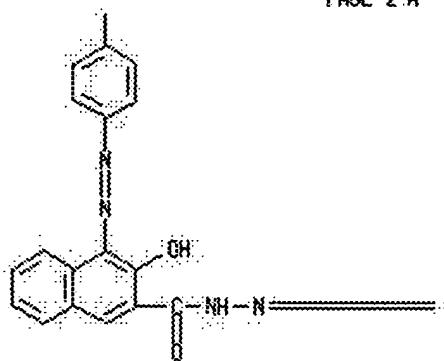
PAGE 1-A



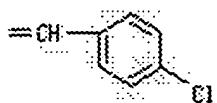
PAGE 1-B



PAGE 2-A



PAGE 2-B

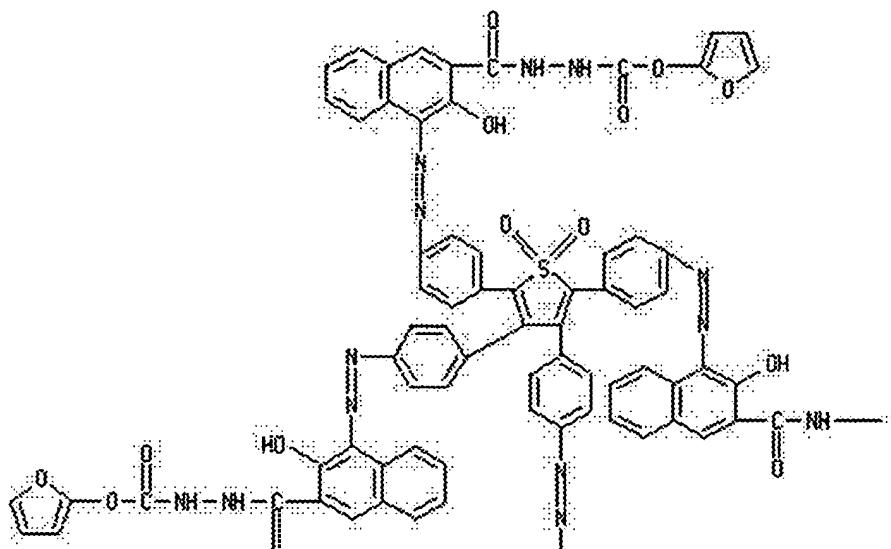


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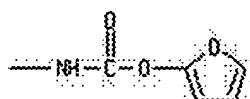
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hydrazinecarboxylic acid, 2,2',2'',2'''-[(1,1-dioxido-2,3,4,5-thiophenetetrayl) tetrakis[4,1-phenyleneazo(2-hydroxy-1,3-naphthalenediyl)carbonyl]]tetrakis-, tetra-2-furanyl ester (9CI)
MF C92 H60 N16 O22 S

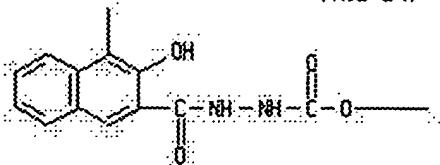
PAGE 1-A



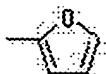
PAGE 1-B



PAGE 2-A



PAGE 2-B

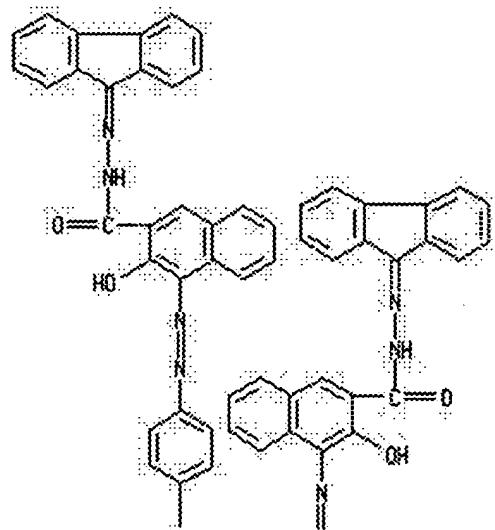


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

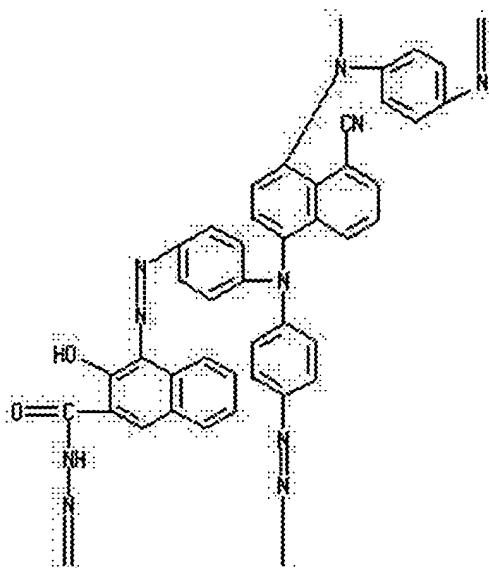
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[(5-cyano-1,4-naphthalenediyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-, tetrakis(9H-fluoren-9-ylidenehydrazide) (9CI)
MF C131 H81 N19 O8

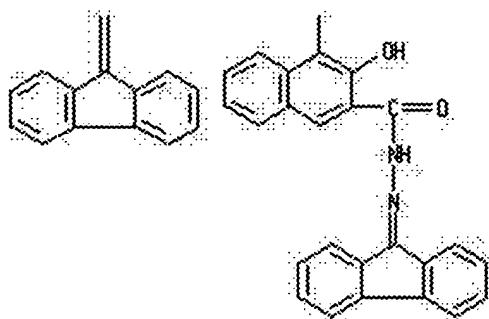
PAGE 1-A



PAGE 2-A



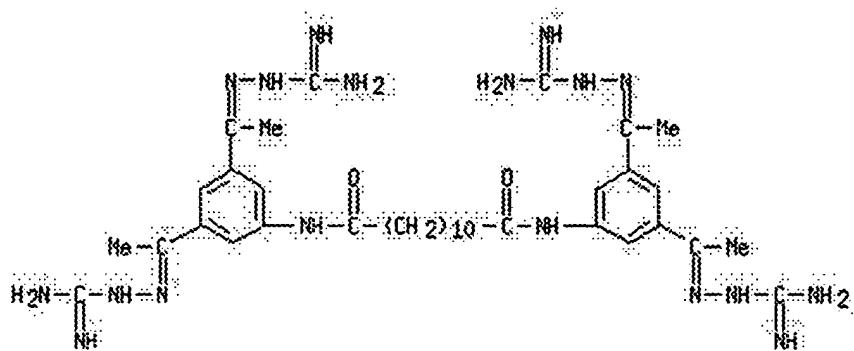
PAGE 3-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Dodecanediamide, N,N'-bis[3,5-bis[1-[(aminoiminomethyl)hydrazone]ethyl]phenyl]-, tetrahydrochloride (9CI)
MF C36 H56 N18 O2 . 4 Cl H

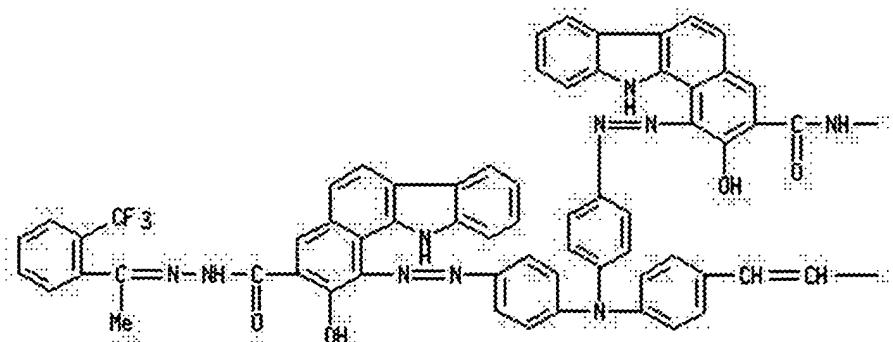


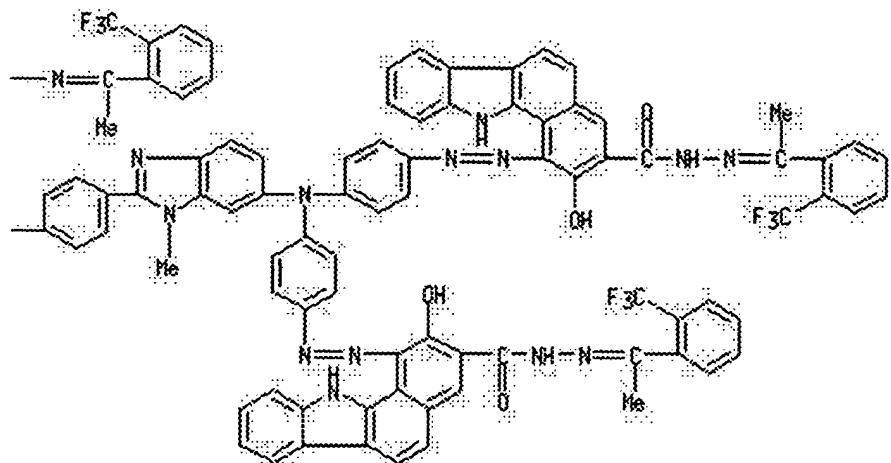
4 HCl

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[[[4-[2-[4-[6-[bis[4-[[2-hydroxy-3-[[1-[2-(trifluoromethyl)phenylethylidene]hydrazino]carbonyl]-11H-benzo[a]carbazol-1-yl]azo]phenyl]imino]-1-methyl-1H-benzimidazol-2-yl]phenyl]ethenyl]phenyl]imino]bis(4,1-phenyleneazo)]bis[2-hydroxy-, bis[[1-[2-(trifluoromethyl)phenyl]ethyldene]hydrazide] (9CI)
 MF C150 H100 F12 N24 O8

PAGE 1-A

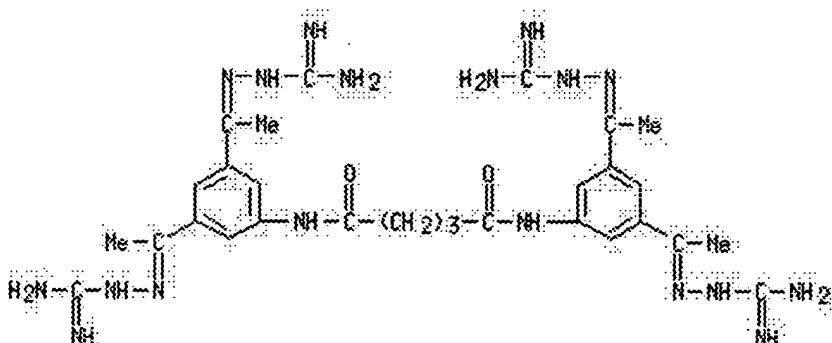




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 169 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Pentanediamide, N,N'-bis[3,5-bis[1-[(aminoiminomethyl)hydrazono]ethyl]phenyl]-(9CI)
 MF C29 H42 N18 O2
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 06:52:48 ON 15 MAY 2006)

FILE 'REGISTRY' ENTERED AT 06:53:03 ON 15 MAY 2006
 L1 STRUCTURE uploaded
 L2 11 S SAM L1
 L3 SCREEN 1918

STN Columbus

L4 STRUCTURE UPLOADED
L5 QUE L4 NOT L3
L6 9 S SAM L5
L7 169 S L5 SSS FULL

=> fil ca; s 17
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 177.06 177.27

FILE 'CA' ENTERED AT 07:11:50 ON 15 MAY 2006
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FILE COVERS 1907 - 11 May 2006 VOL 144 ISS 21
FILE LAST UPDATED: 11 May 2006 (20060511/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

L8 109 L7

=> s 18 and ((charge (2a) (transport? or transfer?)) or electrophoto? or photoconduct? or photo:
468636 CHARGE
746226 TRANSPORT?
908522 TRANSFER?
96958 CHARGE (2A) (TRANSPORT? OR TRANSFER?)
68630 ELECTROPHOTO?
67719 PHOTOCONDUCT?
35612 PHOTORECEPT?
L9 31 L8 AND ((CHARGE (2A) (TRANSPORT? OR TRANSFER?)) OR ELECTROPHOTO?
OR PHOTOCONDUCT? OR PHOTORECEPT?)

=> d scan

L9 31 ANSWERS CA COPYRIGHT 2006 ACS on STN
IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Electrophotographic charge-generating tetrakisazo pigments
ST electrophotog tetrakisazo charge generating pigment
IT Electrophotographic photoconductors
(composite, contg. charge-generating tetrakisazo pigments, for improved sensitivity and voltage stability)
IT Azo compounds
RL: USES (Uses)

STN Columbus

(tetrakis-, **electrophotog.** charge-generating agents)

IT 92-77-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (coupling reaction of, with tetrazonium salts, **electrophotog.**
 charge-generating tetrakisazo pigments from)

IT 98094-34-9 98113-92-9 110573-29-0 110573-30-3 110573-31-4
 110573-32-5 110573-33-6 110573-34-7 110573-35-8 110573-36-9
 110573-37-0 110573-38-1 110573-39-2 110573-40-5
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110591-97-4 110591-98-5 110591-99-6 110592-00-2
110592-01-3
 RL: USES (Uses)
 (**electrophotog.** charge-generating pigments)

IT 98094-32-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and use of, as **electrophotog.** charge-generating
 pigments)

IT 98094-46-3
 RL: USES (Uses)
 (reaction of tetrazotized, **electrophotog.** charge-generating
 tetrakisazo pigments from)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.48	189.75

FILE 'STNGUIDE' ENTERED AT 07:13:35 ON 15 MAY 2006
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 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: May 12, 2006 (20060512/UP).

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.02	190.77

FILE 'REGISTRY' ENTERED AT 07:23:52 ON 15 MAY 2006
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STRUCTURE FILE UPDATES: 14 MAY 2006 HIGHEST RN 884198-07-6
 DICTIONARY FILE UPDATES: 14 MAY 2006 . HIGHEST RN 884198-07-6

STN Columbus

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****  
*  
* The CA roles and document type information have been removed from *  
* the IDE default display format and the ED field has been added, *  
* effective March 20, 2005. A new display format, IDERL, is now *  
* available and contains the CA role and document type information. *  
*  
*****
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading structure

L10 STRUCTURE UPLOADED

=> s 110 sub=17 sam
SAMPLE SUBSET SEARCH INITIATED 07:26:29 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 7 ANSWERS
SEARCH TIME: 00.00.01

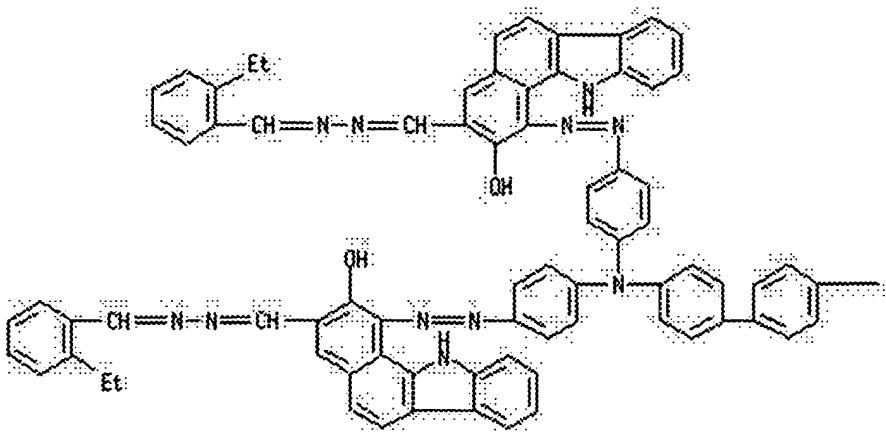
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PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 9 TO 360
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 7 TO 298

L11 7 SEA SUB=L7 SSS SAM L10

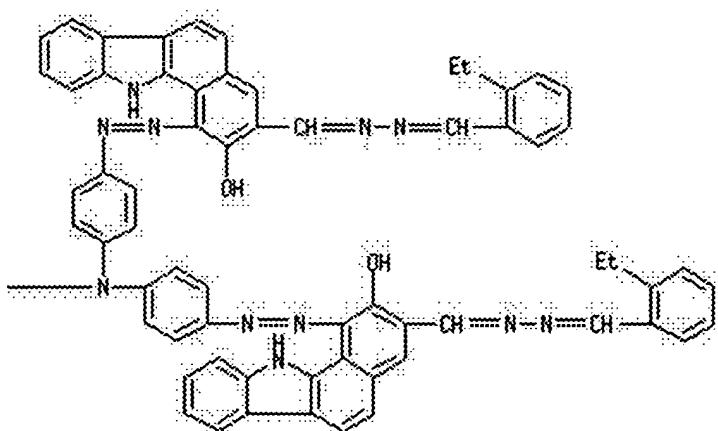
=> d scan

L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 11H-Benzo[a]carbazole-3-carboxaldehyde, 1,1',1'',1'''-[[1,1'-biphenyl]-
4,4'-diylbis[nitrilobis(4,1-phenyleneazo)]]]tetrakis[2-hydroxy-,
tetrakis[(2-ethylphenyl)methylene]hydrazone] (9CI)
MF C140 H104 N22 O4

PAGE 1-A



PAGE 1-B

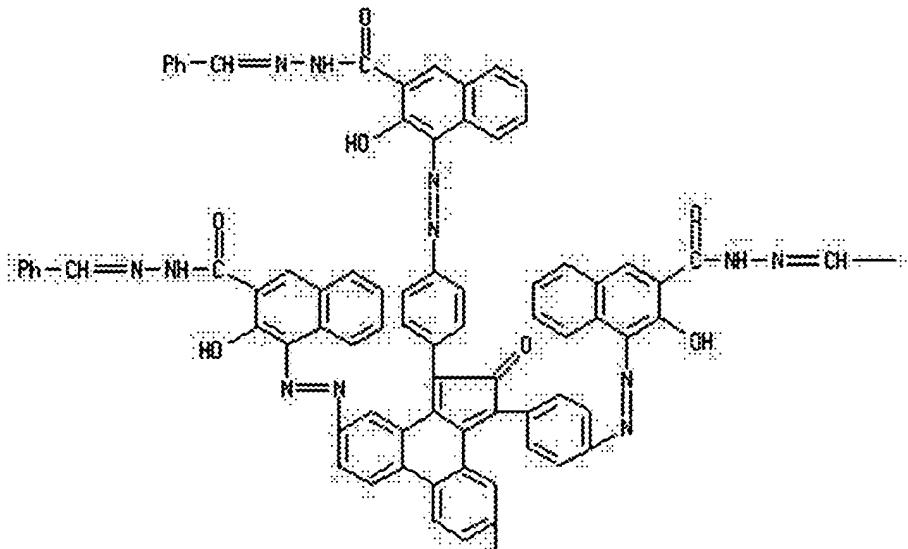


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4'--[[5,10-bis[[2-hydroxy-3-
 [[(phenylmethylene)hydrazino]carbonyl]-1-naphthalenyl]azo]-2-oxo-2H-
 cyclopenta[1]phenanthrene-1,3-diyl]bis(4,1-phenyleneazo)]bis[3-hydroxy-
 bis[(phenylmethylene)hydrazide] (9CI)
 MF C101 H66 N16 O9

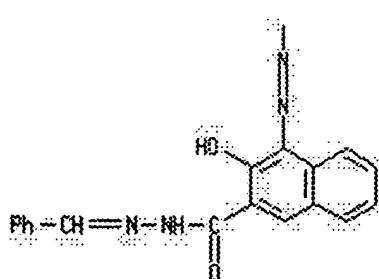
PAGE 1-A



PAGE 1-B

→Ph.

PAGE 2-A



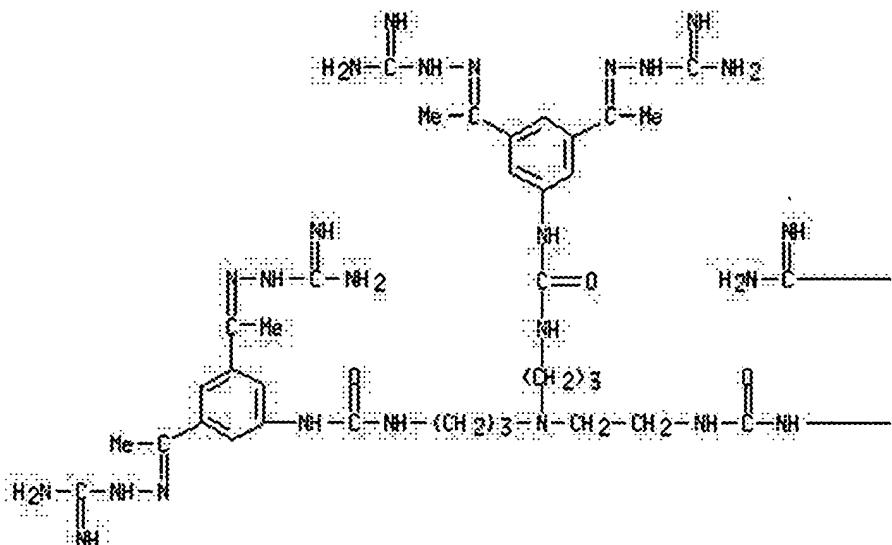
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

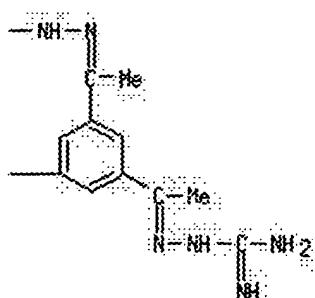
L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Hydrazinecarboximidamide, 2,2',2'',2'''-[[[2-[[[[3,5-bis[1-
 [(aminoiminomethyl)hydrazono]ethyl]phenyl]amino]carbonyl]amino]ethyl]imino
]bis(3,1-propanediyliminocarbonylimino-5,1,3-benzenetriylidene)]tet

rakis- (9CI)
 MF C47 H73 N31 O3
 CI COM

PAGE 1-A



PAGE 1-B



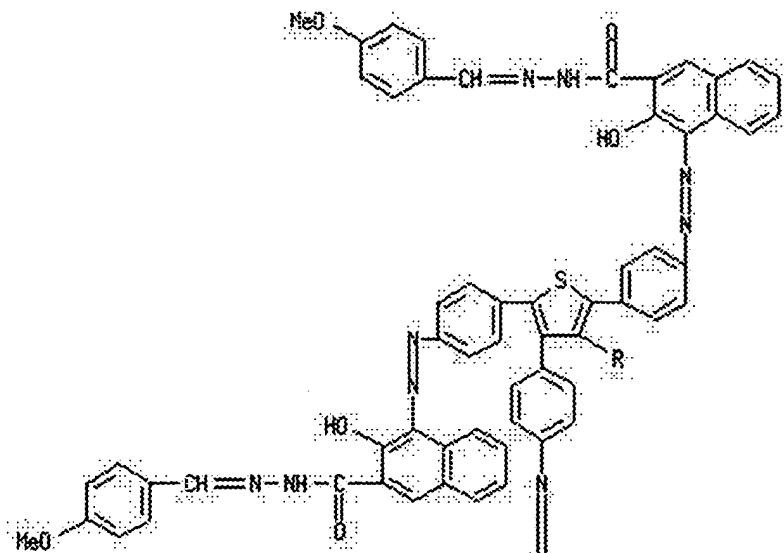
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

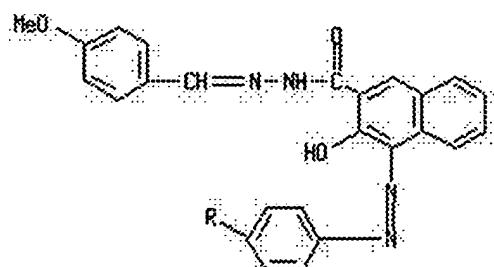
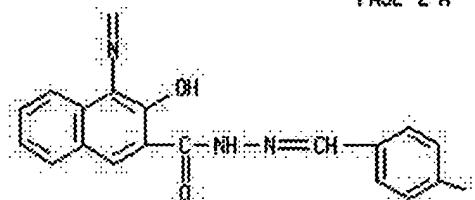
L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalene carboxylic acid, 4,4',4'',4'''-[2,3,4,5-

thiophenetetrayltetrakis(4,1-phenyleneazo)]tetrakis[3-hydroxy-,
tetrakis[(4-methoxyphenyl)methylene]hydrazide] (9CI)
MF C104 H76 N16 O12 S

PAGE 1-A



PAGE 2-A

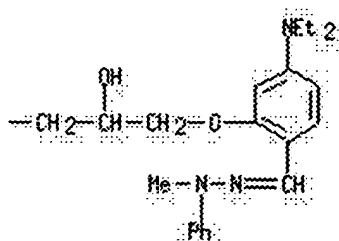
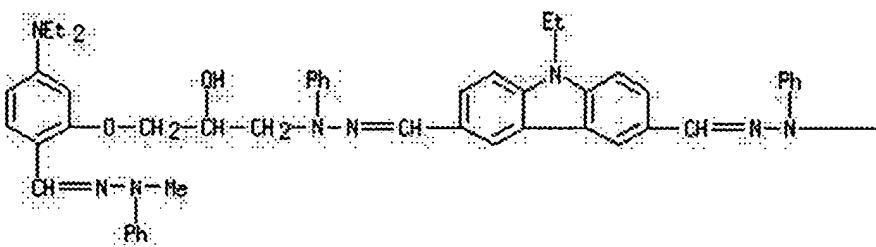


CMe

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 9H-Carbazole-3,6-dicarboxaldehyde, 9-ethyl-, bis[[3-[5-(diethylamino)-2-[(methylphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone] (9CI)
 MF C70 H79 N11 O4

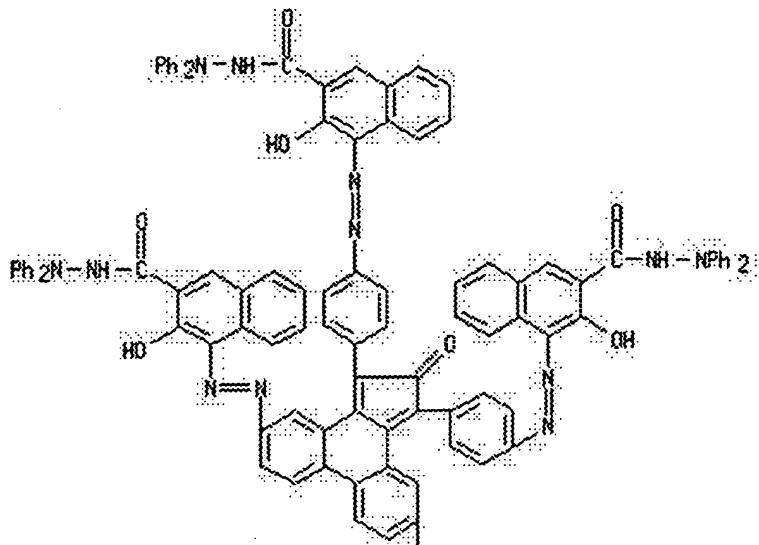


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

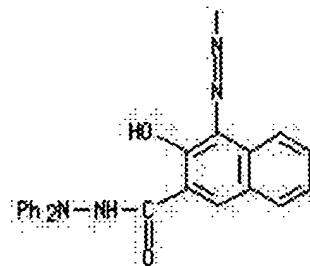
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN 2-Naphthalenecarboxylic acid, 4,4'--[[5,10-bis[[3-[(2,2-diphenylhydrazino)carbonyl]-2-hydroxy-1-naphthalenyl]azo]-2-oxo-2H-cyclopenta[1]phenanthrene-1,3-diyl]bis(4,1-phenyleneazo)]bis[3-hydroxy-, bis(2,2-diphenylhydrazide] (9CI)
 MF C121 H82 N16 O9

PAGE 1-A



PAGE 29

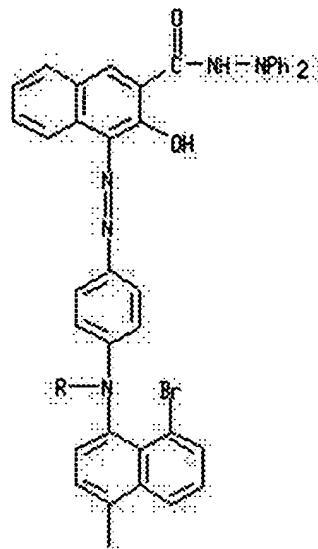


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

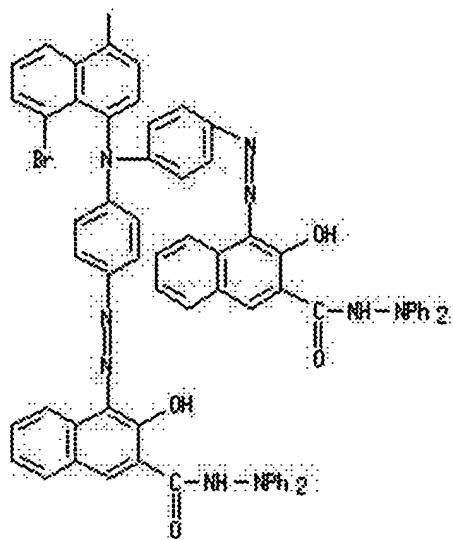
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

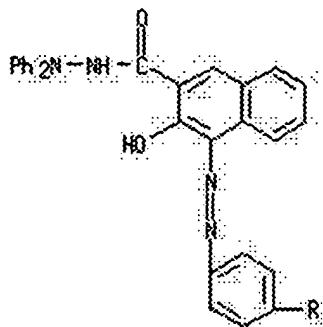
L11 7 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Naphthalenecarboxylic acid, 4,4',4'',4'''-[(5,5'-dibromo[1,1'-binaphthalene]-4,4'-diyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-, tetrakis(2,2-diphenylhydrazide) (9CI)
MF C136 H94 Br2 N18 O8

PAGE 1-A



PAGE 2-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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. IS NOT A RECOGNIZED COMMAND

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For a list of commands available to you in the current file, enter
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=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.96	194.73

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: May 12, 2006 (20060512/UP).

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	195.15

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STRUCTURE FILE UPDATES: 14 MAY 2006 HIGHEST RN 884198-07-6

DICTIONARY FILE UPDATES: 14 MAY 2006 HIGHEST RN 884198-07-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
*****
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,      *
* effective March 20, 2005. A new display format, IDERL, is now      *
* available and contains the CA role and document type information. *
*****

```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading structure

L12 STRUCTURE UPLOADED

=> s l12 sub=17 sam
SAMPLE SUBSET SEARCH INITIATED 07:34:12 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

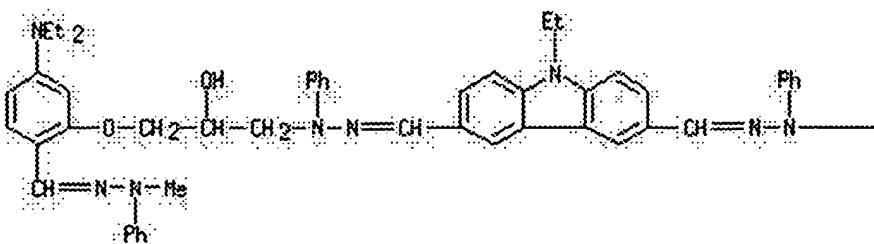
PROJECTIONS (WITHIN SPECIFIED SUBSET):	ONLINE	**COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):	9 TO	360
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):	1 TO	80

L13 1 SEA SUB=L7 SSS SAM L12

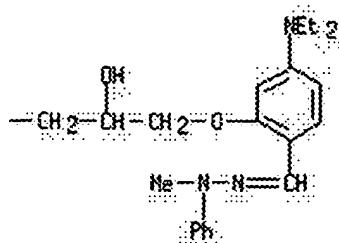
=> d scan

L13 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 9H-Carbazole-3,6-dicarboxaldehyde, 9-ethyl-, bis[[3-[5-(diethylamino)-2-[(methylphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone] (9CI)
MF C70 H79 N11 O4

PAGE 1-A



PAGE 1-8



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s 112 sub=17 sss full
 FULL SUBSET SEARCH INITIATED 07:34:57 FILE 'REGISTRY'
 FULL SUBSET SCREEN SEARCH COMPLETED - 169 TO ITERATE

100.0% PROCESSED 169 ITERATIONS 3 ANSWERS
 SEARCH TIME: 00.00.01

L14 3 SEA SUB=L7 SSS FUL L12

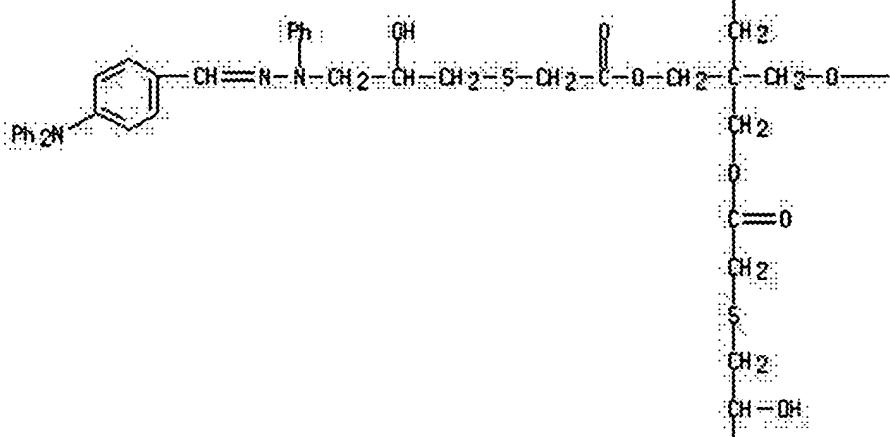
=> d scan

L14 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
 IN Acetic acid, [[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropyl]thio]-, 2,2-bis[[[[3-[[[4-(diphenylamino)phenyl]methylene]phenylhydrazino]-2-hydroxypropyl]thio]acetyl]oxy]methyl]-1,3-propanediyl ester (9CI)
 MF C125 H120 N12 O12 S4

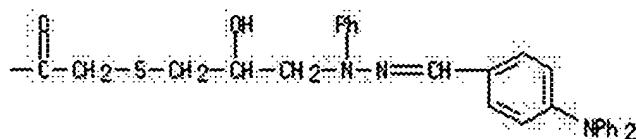
PAGE 1-8



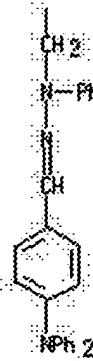
Page 26



Page 2-B



PAGE 38



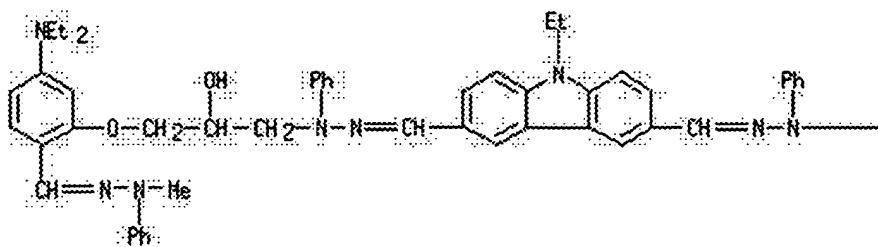
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

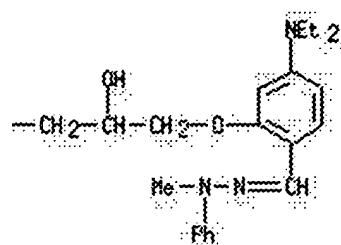
L14 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 9H-Carbazole-3,6-dicarboxaldehyde, 9-ethyl-, bis[[3-[5-(diethylamino)-2-

[(methylphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone]
(9CI)
MF C70 H79 N11 O4

PAGE 1-A



PAGE 1-B

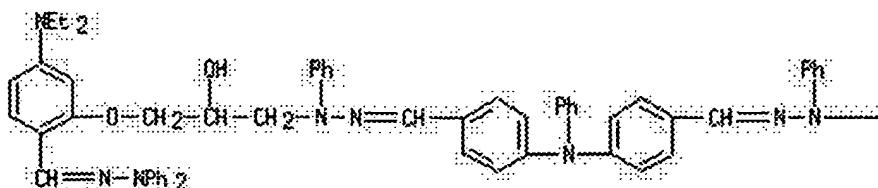


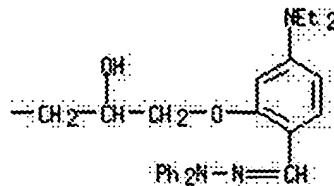
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L14 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Benzaldehyde, 4,4'-(phenylimino)bis-, bis[[3-[5-(diethylamino)-2-
[(diphenylhydrazone)methyl]phenoxy]-2-hydroxypropyl]phenylhydrazone] (9CI)
MF C84 H85 N11 O4

PAGE 1-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil ca	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	40.72	235.87

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 FILE LAST UPDATED: 11 May 2006 (20060511/ED)

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=> d his

(FILE 'HOME' ENTERED AT 06:52:48 ON 15 MAY 2006)

FILE 'REGISTRY' ENTERED AT 06:53:03 ON 15 MAY 2006

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L1      STRUCTURE UPLOADED
L2      11 S SAM L1
L3      SCREEN 1918
L4      STRUCTURE UPLOADED
L5      QUE L4 NOT L3
L6      9 S SAM L5
L7      169 S L5 SSS FULL
  
```

FILE 'CA' ENTERED AT 07:11:50 ON 15 MAY 2006

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L8      109 S L7
L9      31 S L8 AND ((CHARGE (2A) (TRANSPORT? OR TRANSFER?)) OR ELECTROPHO
  
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